

NEC

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ND-3500A

16X DVD±R/RW DL DRIVE

QUICKSTART GUIDE

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Welcome



Thank you for purchasing the NEC ND-3500A DVD±R/RW DL drive. Please remove your service tag sticker found on the outer carton's label. This label contains your drive's service tag number and model number and can be placed in the space below or can be affixed to the outer cover of your PC. You will need this information for product registration and to obtain technical support service. To register this product online, please visit www.necsam.com/registration/ Save the box that your drive was shipped in, as NEC can not be held accountable for damages caused by shipping in the case of a returned product.

Service Tag Number: _____

Purchase Date: _____

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications of this device must be approved by the party responsible for FCC compliance, or the user loses authority to operate this product.

LASER WARNING

Visible and invisible laser radiation. Do not open optical housing. Avoid direct exposure to the beam.

Hardware System Requirements

Minimum

- Intel® Pentium® III 800 MHz
- 256 MB memory
- Used for such things as data back up only.

Recommended

- Intel® Pentium® 4 1.0 GHz
- 512 MB memory
- Highly recommended for all DVD recording.

Software System Requirements

Minimum System Requirements

- Intel® Pentium® III 800 MHz, AMD Athlon™ 800 MHz, or faster for video/menu authoring.
- 256 MB memory (512 MB or above is recommended)
- Microsoft® Windows® 98SE, ME, 2000, XP
- 400 MB hard disk space for program installation
- DirectX® 9.0 driver or above
- Windows®-compatible sound card
- Windows®-compatible display with 800x600 resolution (1024 x 768 is recommended)
- Windows®-compatible mouse or pointing device

Optional Requirements

- Intel® Pentium® 4, 1.8 GHz, AMD Athlon™ 1.7 GHz or higher is required when direct capture and burn from DV to DVD discs.
- USB 1.0 and USB 2.0 capture devices and PC cameras.
- IEEE-1394/FireWire cards for use with DV/D8 camcorders.
- Analog capture card/board (WDM support)
- Windows®-compatible DVD-R/RW, DVD+R/RW, DVD-RAM, CD-R/RW drives.
- 5 GB of available hard drive space for video capturing.
- 5 GB of available hard drive space for DVD disc burning.
- 10 GB of available hard drive space for double-layer discs capturing and burning.

Drive Installation

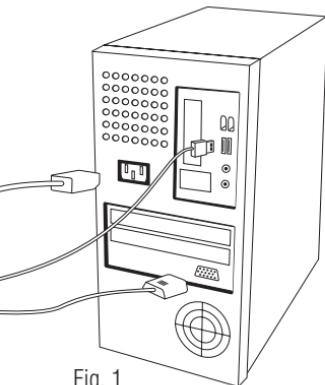


Fig. 1

- ① Shut down your computer and disconnect all cables plugged into the computer. [Fig. 1]
- ② Remove the computer's case (refer to your computer's documentation).
- ③ Once the cover is removed, touch a non-painted metal surface (i.e. the power supply) to ground yourself. **This is an important step!** You can damage the components inside the computer if you do not ground yourself.
- ④ If you are replacing an existing drive:

Unplug the cables from the rear of the drive. [Fig. 2]

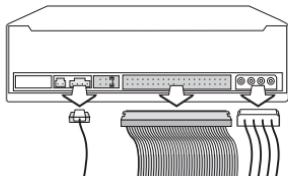


Fig. 2

- ⑤ If you are NOT replacing an existing drive (i.e. adding an additional drive):

Remove the mounting hardware holding the drive in place (refer to your computer's documentation).

Slide the drive out through the front of the computer. [Fig. 3]

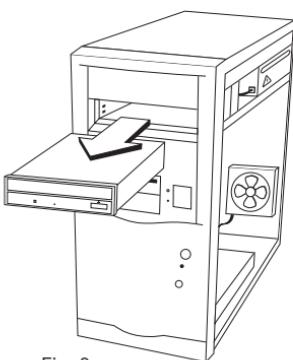


Fig. 3

Remove the front cover plate from the empty drive bay where you are installing the drive (refer to your computer's documentation).

- ⑥ Check the jumper settings on the ND-3500A:

If you are replacing an existing drive, set the jumper to the same setting as the drive you are replacing. The jumper is the black plastic piece on the back of your drive bridging two of the six pins as seen below [Fig 4]. You may need small needle nose pliers to gently slide the jumper off.

If you are installing the ND-3500A as an additional drive, you will need to set the jumper settings according to your system requirements (see next page).

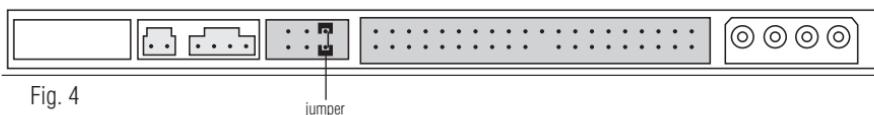


Fig. 4

jumper

Jumper Setting Tutorial:

There are three possible jumper settings: MASTER, SLAVE, and CABLE SELECT (CSEL). When two drives are connected to the same interface cable, one must be set to MASTER, and one set to SLAVE. Alternatively, both drives may be set to CABLE SELECT, in which case the system defines which drive is MASTER and which drive is SLAVE. If only one drive is present, set the jumper to MASTER. The ND-3500A ships with a default setting of MASTER.

If you are installing the ND-3500A as a second drive, look at the jumper settings on the second drive (already in your system). If the settings on that drive are set to MASTER or SLAVE, set the jumper on the ND-3500A to the opposite setting. If the existing drive is set to CABLE SELECT (CSEL), set the jumper on the ND-3500A to CSEL also.

- ⑦ Slide the ND-3500A into the empty drive bay, from the front of the computer. [Fig 5]
- ⑧ Mount the drive to your computer's chassis using the existing mounting hardware, or the provided screws (refer to your computer's documentation).
- ⑨ Connect the interface cable, making sure the red stripe matches Pin 1 on the drive. If your drive is set to MASTER, connect it to the endmost connector on the cable. [Fig. 6]
- ⑩ Connect the included analog audio cable from the drive's audio connector to your sound card (not applicable for Windows® XP users or those using digital audio playback). [Fig. 7]
- ⑪ Connect the power cable. [Fig. 7]
- ⑫ Replace the computer's cover and re-connect all cables that were previously unplugged.
- ⑬ Power-up the computer.

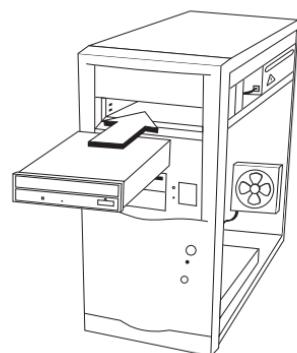
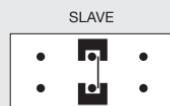
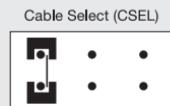


Fig. 5

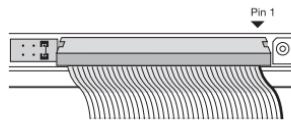


Fig. 6

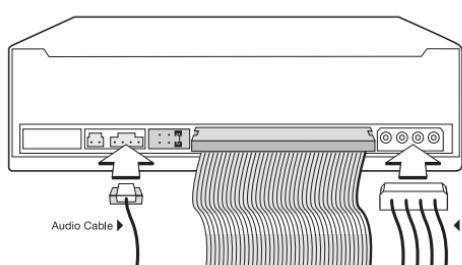
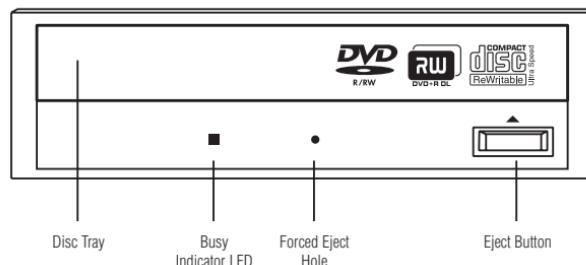


Fig. 7

Using Your Drive



Busy Indicator LED: Lights up when reading or writing data.

Eject Button: Press to load or unload a disc.

Disc Tray: Open or close by pressing the eject button. Load discs into the tray with the label side facing up.

Forced Eject Hole: If the eject button will not open the tray, insert a stiff rod such as a large paper clip into the hole and push in to eject the tray after the drive has been turned off and the disc has stopped spinning.

About DVD Media Types

Media compatibility

Disc Types	ND-3500A Supports
DVD-ROM	Read
DVD-Video	Read
DVD+R (SL, DL)	Read/Write
DVD+RW	Read/Write
DVD-R	Read/Write
DVD-RW	Read/Write
DVD-RAM	Not Supported

SL- Single Layer

DL- Double Layer

Sample DVD+R SL media is included in kit

Product Specifications

Read Speed: 16x max. DVD-ROM and 48x max. CD-ROM

Write Speed: DVD+R: 16x max., DVD+RW: 4x max.,

DVD+R DL: 4x max., DVD-R: 16x max., DVD-RW: 4x max.,

CD-R: 48x max., CD-RW: 24x max.

Access Time: 120 ms (CD), 140 ms (DVD)

Mechanism: Motorized tray load mechanism for horizontal and vertical use

Audio: Digital-out and line-out at the back (MPC compatible)

Interface: IDE/ATAPI

Burst Transfer Rate: PIO mode 4/Ultra DMA 33

Cache: 2 MB

Compatibility: MPC level 3, Multi Read, PC2001

Media/Modes Supported: DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-Video, CD-ROM, CD-ROM XA, CD-Audio, CD Extra, CD Text, CD-I Ready, CD-Bridge, Photo-CD, VideoCD, Hybrid CD

Writing Methods: DAO (disc at once), SAO (session at once), TAO (track at once) with zero gap, variable or fixed packet, multisession

Dust Protected Enclosure

Forced Eject Hole

Software

Your ND-3500A drive ships with Ulead® DVD MovieFactory™ 3.5 Suite Deluxe Edition for Windows®. The bundled software includes these powerful features:

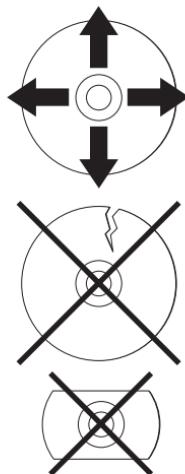
- Create stunning interactive DVDs
- Edit your home videos and burn them to CD or DVD
- Copy your homemade CDs and DVDs and share them with family and friends
- Back up your valuable data
- Burn your own music CD collections
- And much more...

Installing Ulead® DVD MovieFactory™ 3.5 Suite Deluxe Edition:

Please refer to the documentation included on the application disc for installation instructions. Additional information and technical support for Ulead® DVD MovieFactory™ 3.5 Suite Deluxe Edition can be found online at <http://support.ulead.com> or by calling (310) 896-6391, Monday-Friday, 8:30am-5:00pm PST.

Disc Care

- To clean the disc, use a soft cloth and wipe from the inside to the outside edge rather than in a circular motion.
- Do not use record-cleaning or anti-static agents as the solutions may damage a disc.
- Always store discs in proper storage cases when not in use.
- Check for dirt, dust, or fingerprints on a disc's recording side before inserting into the unit.
- Avoid touching or scratching the recording side of the disc.
- Hold the disc only by the edges or by the center hole and one edge.
- Do not affix stickers, labels, or tape to the disc.
- Discard warped or cracked discs as they may cause damage to the drive.
- Avoid unusually shaped discs such as "business card" CDs.



Troubleshooting & Technical Support

Nothing happens when eject button is pressed.

- Make sure the power cable is securely connected to the drive.
- Verify the computer is powered-up and running.

Drive has power (responds to eject button), but is not recognized by computer.

- Verify the interface cable is attached correctly.
- Verify the drive's jumper settings. If your system uses CABLE SELECT, verify the jumper settings are set to CSEL. If your system is MASTER/SLAVE, verify that there is no other device connected to the same cable using the same setting.

Computer shuts down immediately after power-up when drive is installed.

- Verify the drive's jumper settings.
- If drive is the only device connected to the interface cable, connect it to the alternate interface cable connector.

Drive is very loud when reading/writing:

- Make sure the drive is securely mounted to the computer's chassis. Excessive vibration can be caused by loose or uneven mounting.

Still having problems?

- Visit NEC customer support at <http://support.necsam.com> or call (801) 401-1466 for assistance Monday-Friday, 5:00 AM to 5:00 PM Pacific Time.

Warranty Information

ONE (1) YEAR LIMITED WARRANTY

NEC Solutions (America), Inc. ("NECSAM") warrants this hardware product ("Product") against defects in material and workmanship for a period of one year from the date of original purchase (as established by the date of purchase on your sales receipt) from an authorized NECSAM dealer, retailer or distributor.

This warranty only covers the hardware packaged with this Product. This warranty does not cover any software contained in or included with the Product. Any such software is provided "AS IS." For your rights with respect to software please refer to any software documentation included.

This limited warranty is valid only for Product purchased within the United States of America. This warranty applies only to the original purchaser of the Product and is non-transferable.

This limited warranty excludes service due to (1) any external cause, including, acts of God, theft, fire, power failures, and other electrical and/or environmental problems; (2) accident, misuse, abuse, neglect, unauthorized modifications, improper installation or service not authorized by NECSAM; (3) cosmetic damage; (4) usage not in accordance with Product documentation and instructions; or (5) problems caused by use of software, parts and components not supplied by NECSAM. This warranty does not cover damage or loss to any software programs, data or removable discs. This warranty is invalid if the serial number has been defaced, modified or removed.

If a defect arises and a valid claim is received by NECSAM during the limited warranty period, at its option, NECSAM will repair the Product using new or refurbished parts or replace the Product with a new or refurbished Product. Repair or replacement is your sole and exclusive remedy. All parts or Products exchanged under this warranty become the property of NECSAM. The replacement part or Product is warranted for the remainder of the original limited warranty period or thirty (30) days from shipment, whichever is longer.

NECSAM MAKES NO OTHER EXPRESS WARRANTY WITH RESPECT TO THIS PRODUCT. ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE, AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED WILL APPLY AFTER SUCH PERIOD.

NECSAM IS NOT RESPONSIBLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER LEGAL THEORY RELATED TO THIS PRODUCT. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF DATA, LOSS OF BUSINESS, LOSS OF PROFITS, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED PERIPHERALS, COST OF REPLACEMENT PRODUCT, DOWN-TIME, OR CHARGES FOR PURCHASER'S TIME AND EFFORT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

Obtaining Warranty Service

- Please call the NEC telephone technical support line listed below.
- Original purchase receipt must be retained and presented to obtain warranty service.
- Request a RMA number and write the RMA number on the outside of the package in a prominent location.
- Return the Product **freight prepaid** in its original packaging or in other comparable packaging to avoid shipping damage.
- Be sure to remove all parts or options not under warranty or any discs prior to returning the Product.
NECSAM is not responsible for any damage or loss to these items.

NEC Technical Support

For telephone technical support please call (801) 401-1466. Telephone technical support hours are Monday–Friday, 5:00 AM to 5:00 PM Pacific Time.

Warranty Registration

Register your Product online today to help ensure seamless warranty coverage for your new equipment. Failure to complete registration does not diminish your limited warranty rights.

<http://necsam.com/registration/>

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